

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An aqueous pesticidal concentrate microemulsion composition comprising:

a pesticidal component consisting of a water-soluble pesticide dissolved in an aqueous medium, the water-soluble pesticide being present in a concentration that is biologically effective when the composition is diluted in a suitable volume of water and applied to the foliage of a susceptible plant;

a substantially water-immiscible organic solvent; and

a surfactant system comprising a surfactant component and a stabilizer, said surfactant component comprising one or more cationic surfactants present in a concentration sufficient to provide acceptable temperature stability of the microemulsion such that the microemulsion has a cloud point of at least about 50°C and a crystallization point not greater than about -10°C, said stabilizer comprising one or more ~~amine~~ compounds selected from the group consisting of dimethylcocoamine, hexylamine, dimethylhexylamine, octylamine, dimethyloctylamine, dodecyltrimethylamide, C₄₋₈ trialkylamines and quaternary ammonium salts thereof present in an amount sufficient to enhance the compatibility of said surfactant component with the pesticide.

2. (Withdrawn) The composition of claim 1 wherein said stabilizer is present in an amount which provides an optically transparent composition.

3. (Withdrawn) The composition of claim 1 wherein the crystallization point is not greater than about -20°C.

4. (Withdrawn) The composition of claim 1 wherein the cloud point is at least about 60°C.

5. (Canceled)

6. (Canceled)

7. (Previously Amended) The composition of claim 1 wherein the pesticide is glyphosate or a salt or ester thereof.

8. (Original) The composition of claim 7 wherein the glyphosate is predominantly in the form of the potassium, monoammonium, diammonium, sodium, monoethanolamine, n-propylamine, ethylamine, ethylenediamine, hexamethylenediamine or trimethylsulfonium salt thereof.

9. (Original) The composition of claim 8 wherein the glyphosate is predominantly in the form of the potassium salt thereof.

10. (Withdrawn) The composition of claim 1 wherein the composition is stable after storage at 50°C for at least 14 days.

11. (Withdrawn) The composition of claim 10 wherein the composition is stable after storage at 50°C for about 28 days.

12. (Withdrawn) The composition of claim 1 wherein the composition has a viscosity of less than about 1000 centipoise at 0°C at 45/s shear rate.

13. (Withdrawn) The composition of claim 12 wherein the composition has a viscosity of less than about 700 centipoise at 0°C at 45/s shear rate.

14. (Withdrawn) The composition of claim 13 wherein the composition has a viscosity of less than about 400 centipoise at 0°C at 45/s shear rate.

15. (Withdrawn) The composition of claim 14 wherein the composition has a viscosity of less than about 225 centipoise at 0°C at 45/s shear rate.
16. (Withdrawn) The composition of claim 1 wherein said surfactant component is selected such that the composition exhibits no crystallization of said pesticide when stored at a temperature of about -20°C for a period of about 7 days.
17. (Withdrawn) The composition of claim 1 wherein said surfactant component is selected such that the composition exhibits no crystallization of said pesticide when stored at a temperature of about -10°C for a period of about 7 days.
18. (Original) The composition of claim 9 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous phase in an amount of about 310 to about 600 grams of acid equivalent per liter of the composition.
19. (Original) The composition of claim 18 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous phase in an amount of about 360 to about 600 grams of acid equivalent per liter of the composition.
20. (Original) The composition of claim 19 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous phase in an amount of about 400 to about 600 grams of acid equivalent per liter of the composition.
21. (Previously Amended) The composition of claim 20 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous phase in an amount of about 450 to about 600 grams of acid equivalent per liter of the composition.
22. (Previously Amended) The composition of claim 21 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous

phase in an amount of about 480 to about 600 grams of acid equivalent per liter of the composition.

23. (Previously Amended) The composition of claim 22 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous phase in an amount of about 500 to about 600 grams of acid equivalent per liter of the composition.

24. (Previously Amended) The composition of claim 22 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous phase in an amount of about 480 to about 580 grams of acid equivalent per liter of the composition.

25. (Previously Amended) The composition of claim 22 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous phase in an amount of about 540 to about 600 grams of acid equivalent per liter of the composition.

26. (Withdrawn) The composition of claim 1 wherein the total amount of surfactant is from about 20 to about 300 grams per liter of the composition.

27. (Withdrawn) The composition of claim 1 wherein the water-soluble pesticide is selected from the group consisting of acifluorfen, acrolein, amitrole, asulam, benazolin, bentazon, bialaphos, bromacil, bromoxynil, chloramben, chloroacetic acid, clopyralid, 2,4-D, 2,4-DB, dalapon, dicamba, dichlorprop, difenzoquat, diquat, endothall, fenac, fenoxaprop, flamprop, flumiclorac, fluoroglycofen, flupropanate, fomesafen, fosamine, glufosinate, imazameth, imazamethabenz, imazamox, imazapic, imazapyr, imazaquin, imazethapyr, ioxynil, MCPA, MCPB, mecoprop, methylarsonic acid, naptalam, nonanoic acid, paraquat, picloram, quinclorac, sulfamic acid, 2,3,6-TBA, TCA, triclopyr and water-soluble salts thereof.

28. (Withdrawn) The composition of claim 1 wherein the composition is substantially homogeneous upon storage at 50°C for one week.

29. (Withdrawn) The composition of claim 1 wherein said surfactant component comprises at least one cationic surfactant.

30. (Withdrawn) The composition of claim 29 wherein said surfactant component further comprises at least one nonionic surfactant.

31. (Currently Amended) A liquid herbicidal concentrate emulsion composition having a continuous aqueous phase and a discontinuous oil phase, the composition comprising:

a pesticidal component consisting of glyphosate predominantly in the form of the potassium, monoammonium, diammonium, sodium, monoethanolamine, n-propylamine, ethylamine, ethylenediamine, hexamethylenediamine or trimethylsulfonium salt thereof, in solution in said aqueous phase in a concentration that is biologically effective when the composition is diluted in a suitable volume of water to form an enhanced application mixture and applied to foliage of a susceptible plant;

an oil phase comprising a substantially water-immiscible organic solvent; and

a surfactant system comprising a surfactant component and a stabilizer in solution or stable suspension, emulsion, or dispersion in said aqueous phase, said surfactant component comprising one or more cationic surfactants present in a concentration sufficient to provide acceptable temperature stability of the concentrate emulsion composition such that the concentrate emulsion composition has a cloud point of at least about 50°C and a crystallization point not greater than about -10°C, said stabilizer comprising one or more ~~amine~~ compounds selected from the group consisting of dimethylcocoamine, hexylamine, dimethylhexylamine, octylamine, dimethyloctylamine, dodecyltrimethylamide, C₄₋₈ trialkylamines and quaternary ammonium salts thereof present in an amount sufficient to enhance the compatibility of said surfactant component with the glyphosate.

32. (Previously Amended) The composition of claim 31 wherein said stabilizer is present in an amount which provides an optically transparent composition.

33. (Original) The composition of claim 31 wherein the crystallization point is not greater than about -20°C.

34. (Original) The composition of claim 31 wherein the cloud point is at least about 60°C.

35. (Canceled)

36. (Canceled)

37. (Original) The composition of claim 31 wherein the glyphosate is predominantly in the form of the potassium, monoammonium, diammonium, sodium, monoethanolamine, n-propylamine, ethylamine, ethylenediamine, or hexamethylenediamine salt thereof.

38. (Original) The composition of claim 31 wherein said glyphosate is in solution in said aqueous phase in an amount of about 400 to about 600 grams of acid equivalent per liter of the composition.

39. (Original) The composition of claim 31 wherein said surfactant component comprises at least one cationic surfactant.

40. (Original) The composition of claim 39 wherein said surfactant component comprises at least one nonionic surfactant.

41. (Currently Amended) An aqueous pesticidal concentrate microemulsion composition comprising:

a pesticidal component consisting of a water-soluble pesticide dissolved in an aqueous medium, the water-soluble pesticide being present in a concentration that is

biologically effective when the composition is diluted in a suitable volume of water and applied to the foliage of a susceptible plant;

a substantially water-immiscible organic solvent; and

a surfactant system comprising a surfactant component and a stabilizer, said surfactant component comprising at least one cationic surfactant and at least one nonionic surfactant, the surfactant component being present in a concentration sufficient to provide acceptable temperature stability of the microemulsion such that the microemulsion has a cloud point of at least about 50°C and a crystallization point not greater than about -10°C, said stabilizer comprising one or more amine compounds or quaternary ammonium salts thereof, each of which comprises an alkyl or aryl substituent having from about 4 to about 16 carbon atoms and not more than ten ethylene oxide linkages within the compound, wherein said stabilizer is present in an amount sufficient to enhance the compatibility of said surfactant component with the pesticide and the weight ratio of said at least one cationic surfactant to said stabilizer is between about 1.5:1 and about 6:1.

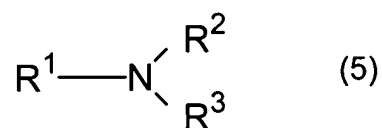
42. (Withdrawn) The composition of claim 41 wherein said stabilizer is present in an amount which provides an optically transparent composition.

43. (Withdrawn) The composition of claim 41 wherein the crystallization point is not greater than about -20°C.

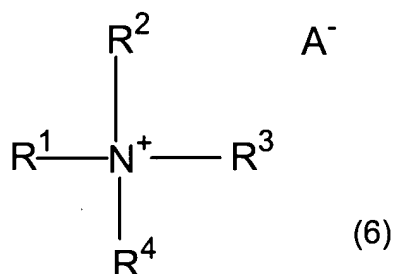
44. (Withdrawn) The composition of claim 41 wherein the cloud point is at least about 60°C.

45. (Canceled)

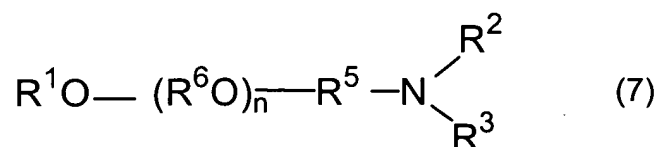
46. (Withdrawn) The composition of claim 41 wherein said stabilizer comprises one or more amine or quaternary ammonium salt compounds having the formula:



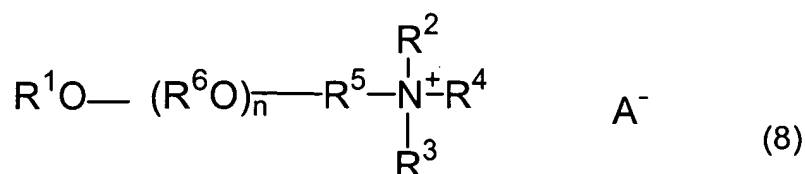
or



or



or



wherein R¹ is linear or branched alkyl or aryl having from about 4 to about 16 carbon atoms, R² is hydrogen, methyl, ethyl, or -(CH₂CH₂O)_xH, R³ is hydrogen, methyl, ethyl, or -(CH₂CH₂O)_yH, the sum of x and y is not more than about 5, R⁴ is hydrogen or methyl, R⁶ in each of the n (R⁶O) groups is independently C₂-C₄ alkylene, R⁵ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms, and A⁻ is an agriculturally acceptable anion.

47. (Previously Amended) The composition of claim 41 wherein the pesticide is glyphosate or a salt or ester thereof.

48. (Original) The composition of claim 47 wherein the glyphosate is predominantly in the form of the potassium, monoammonium, diammonium, sodium, monoethanolamine, n-propylamine, ethylamine, ethylenediamine, hexamethylenediamine or trimethylsulfonium salt thereof.

49. (Original) The composition of claim 48 wherein the glyphosate is predominantly in the form of the potassium salt thereof.

50. (Withdrawn) The composition of claim 41 wherein the composition is stable after storage at 50°C for at least 14 days.

51. (Withdrawn) The composition of claim 50 wherein the composition is stable after storage at 50°C for about 28 days.

52. (Withdrawn) The composition of claim 41 wherein the composition has a viscosity of less than about 1000 centipoise at 0°C at 45/s shear rate.

53. (Withdrawn) The composition of claim 52 wherein the composition has a viscosity of less than about 700 centipoise at 0°C at 45/s shear rate.

54. (Withdrawn) The composition of claim 53 wherein the composition has a viscosity of less than about 400 centipoise at 0°C at 45/s shear rate.

55. (Withdrawn) The composition of claim 54 wherein the composition has a viscosity of less than about 225 centipoise at 0°C at 45/s shear rate.

56. (Withdrawn) The composition of claim 41 wherein said surfactant component is selected such that the composition exhibits no crystallization of said pesticide when stored at a temperature of about -20°C for a period of about 7 days.

57. (Withdrawn) The composition of claim 41 wherein said surfactant component is selected such that the composition exhibits no crystallization of said pesticide when stored at a temperature of about -10°C for a period of about 7 days.

58. (Original) The composition of claim 47 wherein said glyphosate is in solution in said aqueous phase in an amount of about 310 to about 600 grams of acid equivalent per liter of the composition.

59. (Previously Amended) The composition of claim 58 wherein said glyphosate is in solution in said aqueous phase in an amount of about 360 to about 600 grams of acid equivalent per liter of the composition.

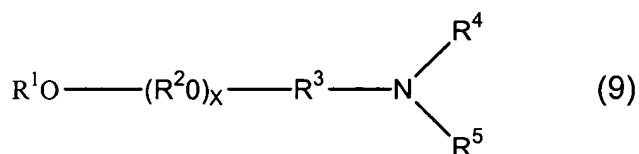
60. (Previously Amended) The composition of claim 59 wherein said glyphosate is in solution in said aqueous phase in an amount of about 400 to about 600 grams of acid equivalent per liter of the composition.

61. (Withdrawn) The composition of claim 41 wherein the total amount of surfactant is from about 20 to about 300 grams per liter of the composition.

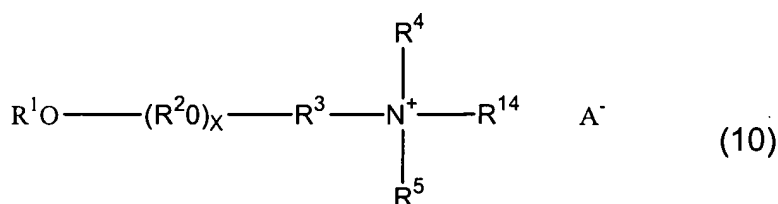
62. (Withdrawn) The composition of claim 41 wherein the composition is substantially homogeneous upon storage at 50°C for one week.

63. (Withdrawn) The composition of claim 41 wherein said at least one cationic surfactant comprises:

(a) an aminated alkoxyated alcohol having the formula:

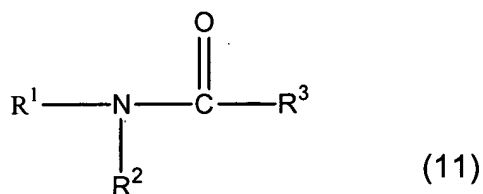


or



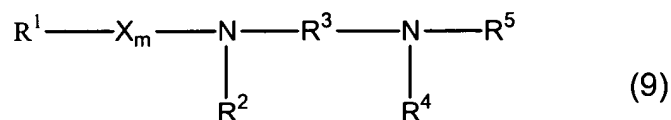
wherein R^1 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, $-(R^6)_n-(R^2O)_yR^7$, $-C(=NR^{11})NR^{12}R^{13}$, $-C(=O)NR^{12}R^{13}$, $-C(=S)NR^{12}R^{13}$ or together with R^5 and the nitrogen atom to which they are attached, form a cyclic or heterocyclic ring, R^5 is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, $-(R^6)_n-(R^2O)_yR^7$, $-C(=NR^{11})NR^{12}R^{13}$, $-C(=O)NR^{12}R^{13}$, $-C(=S)NR^{12}R^{13}$ or together with R^4 and the nitrogen atom to which they are attached, form a cyclic or heterocyclic ring, R^7 is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, R^{11} , R^{12} and R^{13} are hydrogen, hydrocarbyl or substituted hydrocarbyl, R^{14} is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, $-(R^6)_n-(R^2O)_yR^7$, $-C(=NR^{11})NR^{12}R^{13}$, $-C(=O)NR^{12}R^{13}$, or $-C(=S)NR^{12}R^{13}$, R^2 in each of the x (R^2O) and y (R^2O) groups is independently C_2 - C_4 alkylene, R^3 and R^6 are each independently hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, n is 0 or 1, x and y are independently an average number from 1 to about 60, and A^- is an agriculturally acceptable anion; or

(b) a hydroxylated amide having the formula:



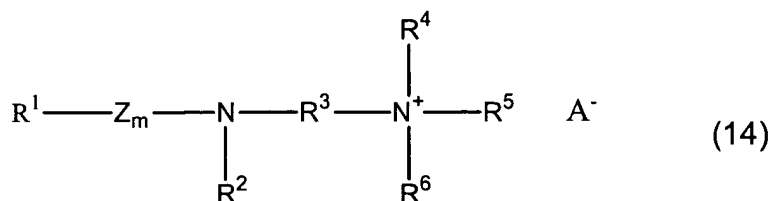
wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms, R² is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, and R³ is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl; or

(c) a diamine having the formula:

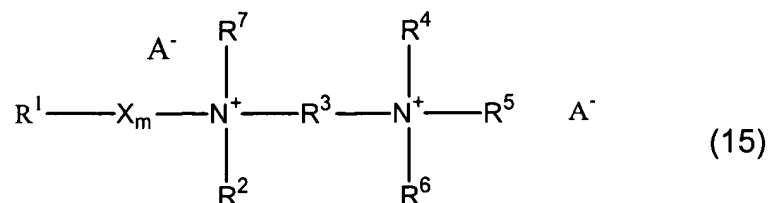


wherein R¹, R² and R⁵ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms or -R⁸(OR⁹)_nOR¹⁰, R³ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, R⁸ and R⁹ are individually hydrocarbylene or substituted hydrocarbylene having from 2 to about 4 carbon atoms, R⁴ and R¹⁰ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m is 0 or 1, n is an average number from 0 to about 40, and X is -C(O)- or -SO₂-; or

(d) a mono- or di-ammonium salt having the formula:

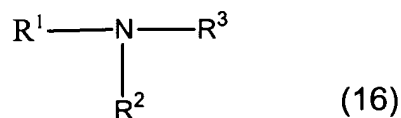


or



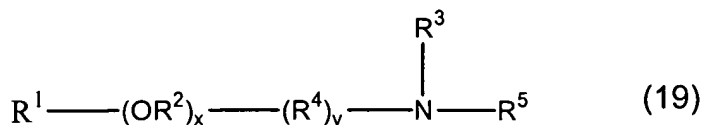
wherein R^1 , R^2 , R^4 , R^5 and R^7 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms or $-\text{R}^8(\text{OR}^9)_n\text{OR}^{10}$, R^6 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^3 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R^8 and R^9 are individually hydrocarbylene or substituted hydrocarbylene having from 2 to about 4 carbon atoms, R^{10} is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m is 0 or 1, n is an average number from 0 to about 40, X is $-\text{C}(\text{O})-$ or $-\text{SO}_2-$, Z is $-\text{C}(\text{O})-$, and A^- is an agriculturally acceptable anion; or

(e) a poly(hydroxyalkyl)amine having the formula:



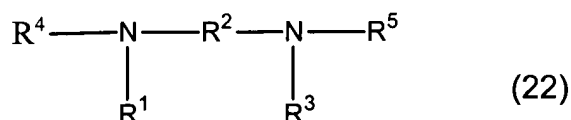
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms or $-\text{R}^4\text{OR}^5$, R^2 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^3 is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl, R^4 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and R^5 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; or

(f) an alkoxyated poly(hydroxyalkyl)amine having the formula:



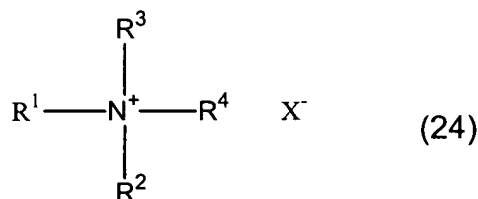
wherein R^1 and R^3 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) groups is independently C_2 - C_4 alkylene, R^4 is hydrocarbylene or substituted hydrocarbylene having from 1 to about 30 carbon atoms, R^5 is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl x is an average number from 0 to about 30, and y is 0 or 1; or

(g) a di-poly(hydroxyalkyl)amine having the formula:



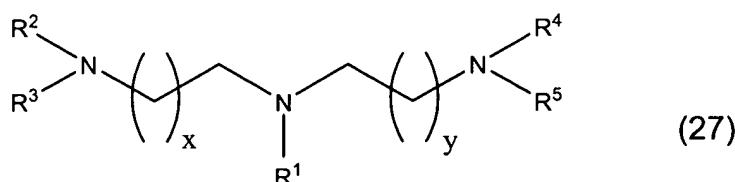
wherein R^1 and R^3 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 22 carbon atoms, R^2 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and R^4 and R^5 are independently hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl; or

(h) a quaternary poly(hydroxyalkyl)amine salt having the formula:



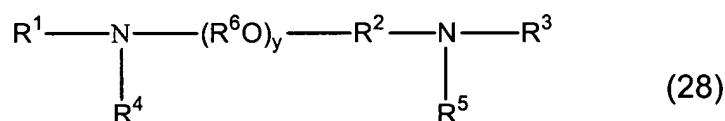
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms or $-X_m-(R^6O)_yR^5$, R^2 and R^3 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl, X^- is an agriculturally acceptable anion, R^6 in each of the $y(R^6O)$ groups is independently C_2 - C_4 alkylene, R^5 is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, X is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, m is 0 or 1, and y is an average number from 0 to about 30; or

(i) a triamine having the formula:



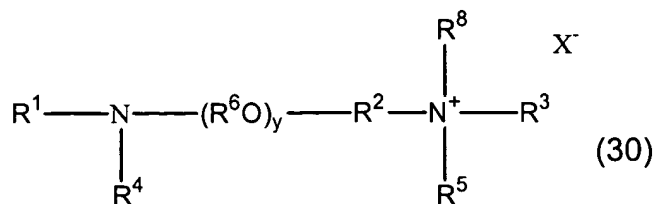
wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R², R³, R⁴ and R⁵ are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(R⁸)_s(R⁷O)_nR⁶, R⁶ is hydrogen or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R⁷ in each of the n (R⁷O) groups is independently C₂-C₄ alkylene, R⁸ is hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, n is an average number from 1 to about 10, s is 0 or 1, and x and y are independently an integer from 1 to about 4; or

(j) a diamine having the formula:

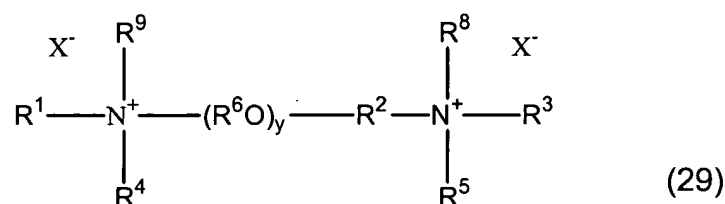


wherein R¹, R³, R⁴ and R⁵ are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(R⁶O)_xR⁷, R² is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, -C(=NR¹¹)NR¹²R¹³-, -C(=O)NR¹²R¹³-, -C(=S)NR¹²R¹³-, -C(=NR¹²)-, -C(S)-, or -C(O)-, R⁶ in each of the x(R⁶O) and y(R⁶O) groups is independently C₂-C₄ alkylene, R⁷ is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, R¹¹, R¹² and R¹³ are hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, x is an average number from 1 to about 50, and y is an average number from 0 to about 60; or

(k) a mono- or di-quaternary ammonium salt having the formula:

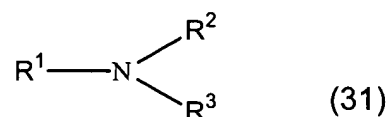


or



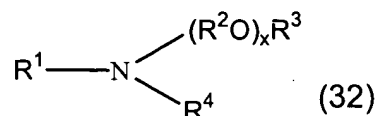
wherein R^1 , R^3 , R^4 , R^5 , R^8 and R^9 are independently hydrogen, polyhydroxyalkyl, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(\text{R}^6\text{O})_x\text{R}^7$, R^2 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R^6 in each of the x (R^6O) and y (R^6O) groups is independently C_2 - C_4 alkylene, R^7 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, x is an average number from 1 to about 30, y is an average number from about 3 to about 60, and X^- is an agriculturally acceptable anion; or

(l) a secondary or tertiary amine having the formula:



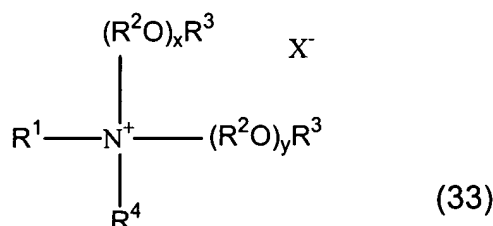
wherein R^1 and R^2 are hydrocarbyl having from 1 to about 30 carbon atoms, and R^3 is hydrogen or hydrocarbyl having from 1 to about 30 carbon atoms; or

(m) a monoalkylated amine having the formula:



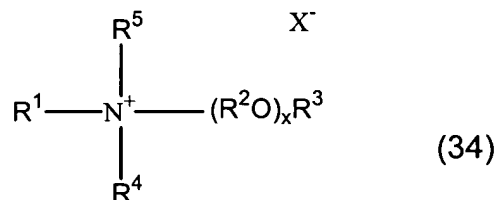
wherein R^1 and R^4 are independently hydrocarbyl or substituted hydrocarbyl groups having from 1 to about 30 carbon atoms or $-R^5SR^6$, R^2 in each of the x (R^2O) groups is independently C_2-C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^5 is a linear or branched alkyl group having from about 6 to about 30 carbon atoms, R^6 is a hydrocarbyl or substituted hydrocarbyl group having from 4 to about 15 carbon atoms and x is an average number from 1 to about 60; or

(n) a dialkoxylated quaternary ammonium salt having the formula:



wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) and y (R^2O) groups is independently C_2-C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^4 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, x and y are independently an average number from 1 to about 40, and X^- is an agriculturally acceptable anion; or

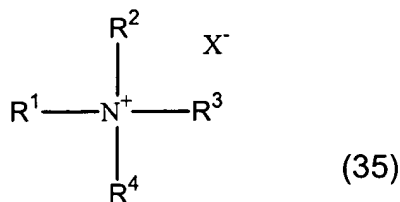
(o) a monoalkoxylated quaternary ammonium salt having the formula:



wherein R^1 and R^5 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) groups is independently C_2-C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group

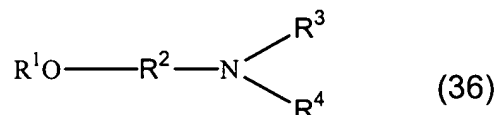
having from 1 to about 30 carbon atoms, x is an average number from 1 to about 60, and X⁻ is an agriculturally acceptable anion; or

(p) a quaternary ammonium salt having the formula:



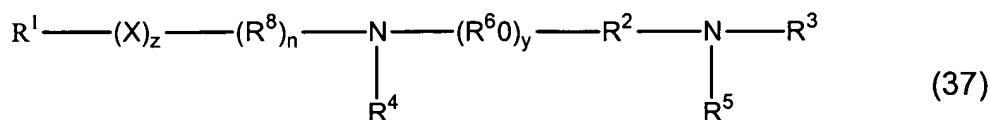
wherein R¹, R³ and R⁴ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R² is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, and X⁻ is an agriculturally acceptable anion; or

(q) an etheramine having the formula:



wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R² is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R³ and R⁴ are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(R⁵O)_xR⁶, R⁵ in each of the x(R⁵O) groups is independently C₂-C₄ alkylene, R⁶ is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, and x is an average number from 1 to about 50; or

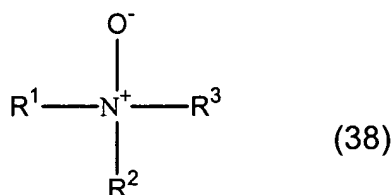
(r) a diamine having the formula:



wherein R¹, R³, R⁴ and R⁵ are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(R⁶O)_xR⁷, R² and R⁸ are

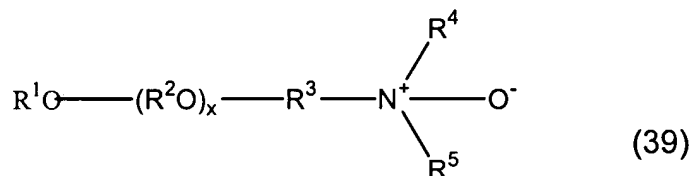
independently hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R^6 in each of the x (R^6O) and y (R^6O) groups is independently C_2-C_4 alkylene, R^7 is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, x is an average number from 1 to about 30, X is $-O-$, $-N(R^6)-$, $-C(O)-$, $-C(O)O-$, $-OC(O)-$, $-N(R^9)C(O)-$, $-C(O)N(R^9)-$, $-S-$, $-SO-$, or $-SO_2-$, y is 0 or an average number from 1 to about 30, n and z are independently 0 or 1, and R^9 is hydrogen or hydrocarbyl or substituted hydrocarbyl; or

(s) an amine oxide having the formula:



wherein R^1 , R^2 and R^3 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, $-(R^4O)_xR^5$, or $-R^6(OR^4)_xOR^5$, R^4 in each of the x (R^4O) groups is independently C_2-C_4 alkylene, R^5 is hydrogen, or a hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^6 is a hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, x is an average number from 1 to about 50, and the total number of carbon atoms in R^1 , R^2 and R^3 is at least 8; or

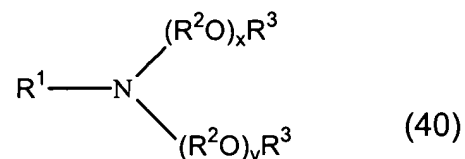
(t) an alkoxyated amine oxide having the formula:



wherein R^1 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^3 is a hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms, R^4 and R^5 are each independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^6)_n-(R^2O)_yR^7$, R^2 in each of the x (R^2O) and y (R^2O) groups is independently C_2-C_4 alkylene, R^6 is

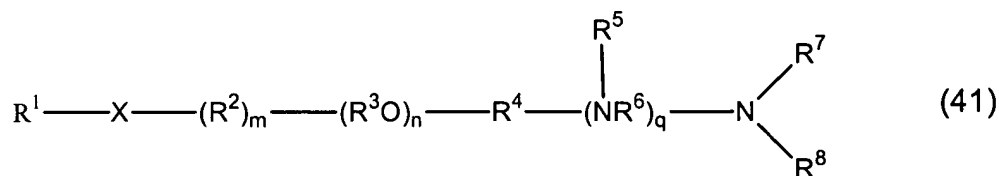
hydrocarbylene or substituted hydrocarbylene containing from 1 to about 6 carbon atoms, R^7 is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, n is 0 or 1, and x and y are independently an average number from 1 to about 60; or

(u) a dialkoxylated amine having the formula:



wherein R^1 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, $-\text{R}^4\text{SR}^5$, or $-(\text{R}^2\text{O})_z\text{R}^3$, R^2 in each of the x (R^2O) , y (R^2O) and z (R^2O) groups is independently $\text{C}_2\text{-C}_4$ alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 22 carbon atoms, R^4 is a linear or branched alkyl group having from about 6 to about 30 carbon atoms, R^5 is a linear or branched alkyl group having from about 4 to about 15 carbon atoms, and x , y and z are independently an average number from 1 to about 40, provided, however, that when R^1 is alkyl, either the sum of x and y is greater than 20 or R^3 is other than hydrogen; or

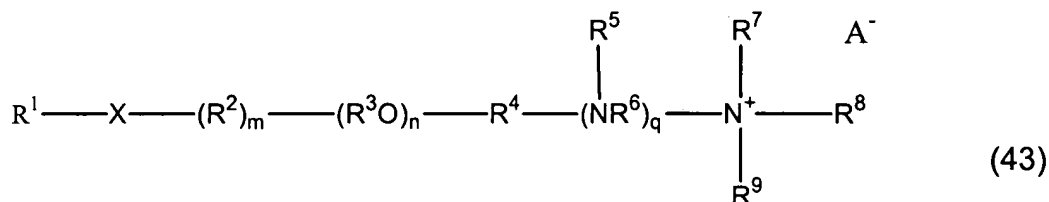
(v) an aminated alkoxyated alcohol having the formula:



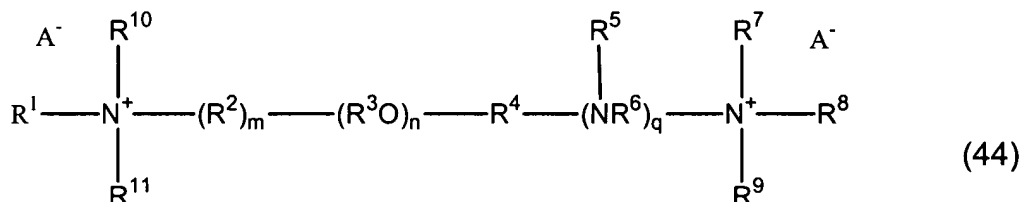
wherein R^1 , R^7 , R^8 , and R^9 are each independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(\text{R}^{11})_s(\text{R}^3\text{O})_v\text{R}^{10}$, X is $-\text{O}-$, $-\text{OC}(\text{O})-$, $-\text{C}(\text{O})\text{O}-$, $-\text{N}(\text{R}^{12})\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{N}(\text{R}^{12})-$, $-\text{S}-$, $-\text{SO}-$, $-\text{SO}_2-$ or $-\text{N}(\text{R}^9)-$, R^3 in each of the n (R^3O) groups and the v (R^3O) groups is independently $\text{C}_2\text{-C}_4$ alkylene, R^{10} is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, n is an average number from 1 to about 60, v is an average number from 1 to about 50, R^2 and R^{11} are each independently hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, R^4 is hydrocarbylene or substituted

hydrocarbylene having from 2 to about 6 carbon atoms, R^{12} is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m and s are each independently 0 or 1, R^6 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, $-C(=NR^{12})-$, $-C(S)-$, or $-C(O)-$, q is an integer from 0 to 5, and R^5 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; or

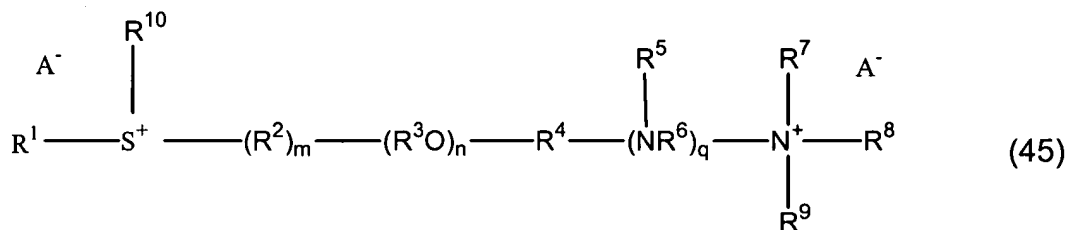
(w) a quaternary ammonium, sulfonium or sulfoxonium salt having the formula:



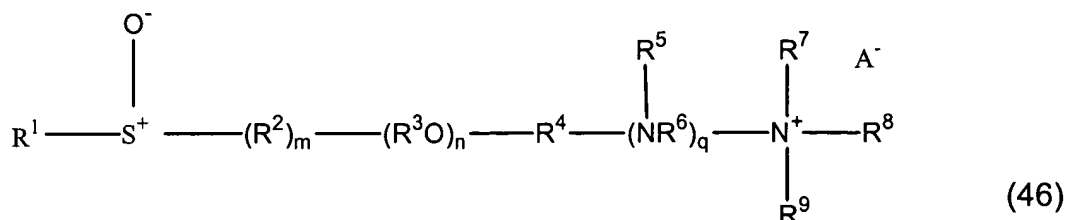
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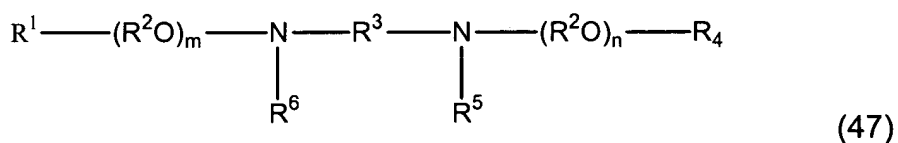


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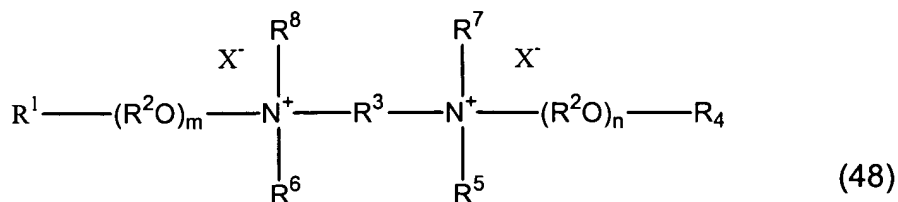


wherein R^1 , R^7 , R^8 , R^9 , R^{10} and R^{11} are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(\text{R}^{13})_s(\text{R}^3\text{O})_v\text{R}^{12}$, X is $-\text{O}-$, $-\text{OC}(\text{O})-$, $-\text{N}(\text{R}^{14})\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{N}(\text{R}^{14})-$, $-\text{C}(\text{O})\text{O}-$, or $-\text{S}-$, R^3 in each of the n (R^3O) groups and v (R^3O) groups is independently C_2 - C_4 alkylene, R^{12} is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, n is an average number from 1 to about 60, v is an average number from 1 to about 50, R^2 and R^{13} are each independently hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, m and s are each independently 0 or 1, R^4 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms, R^6 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, $-\text{C}(=\text{NR}^{12})-$, $-\text{C}(\text{S})-$, or $-\text{C}(\text{O})-$, R^{14} is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, q is an integer from 0 to 5, R^5 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, and each A^- is an agriculturally acceptable anion; or

(x) a diamine or diammonium salt having the formula:

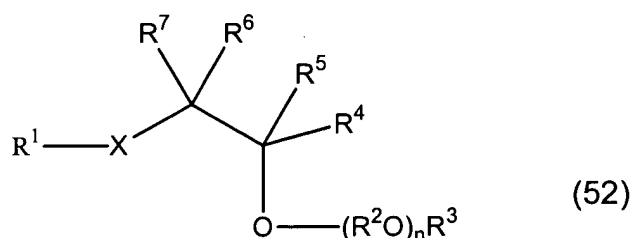


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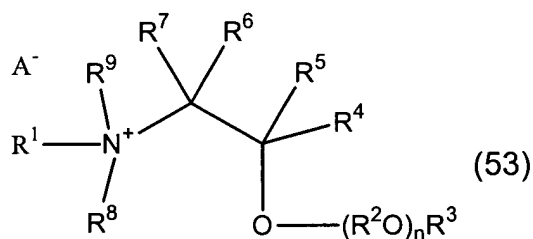


wherein R^1 , R^4 , R^5 , R^6 , R^7 and R^8 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the $m(R^2O)$ and $n(R^2O)$ groups and R^9 are independently C_2 - C_4 alkylene, R^3 is hydrocarbylene or substituted hydrocarbylene having from about 2 to about 6 carbon atoms or $-(R^2O)_pR^9$ -, m and n are individually an average number from 0 to about 50, and p is an average number from 0 to about 60; or

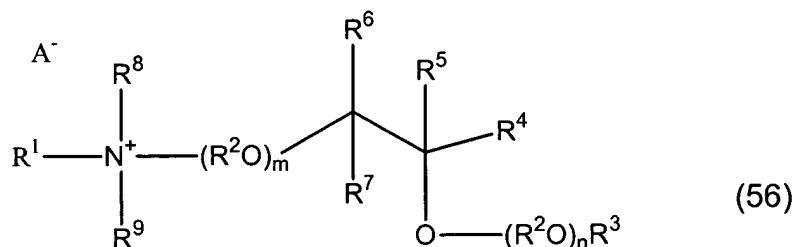
(y) a compound of the formula:



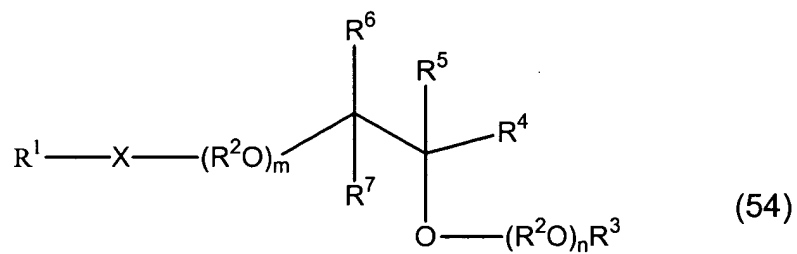
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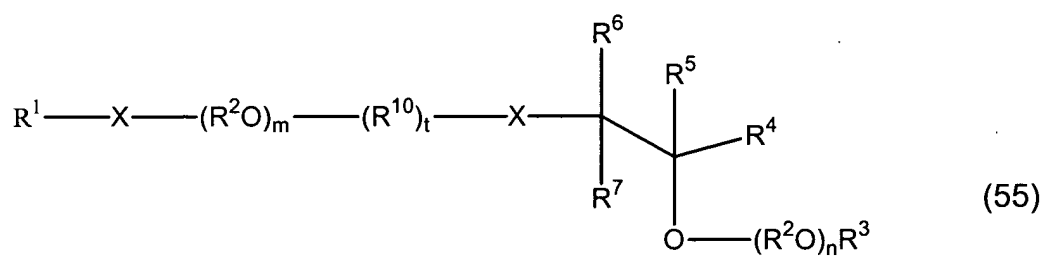
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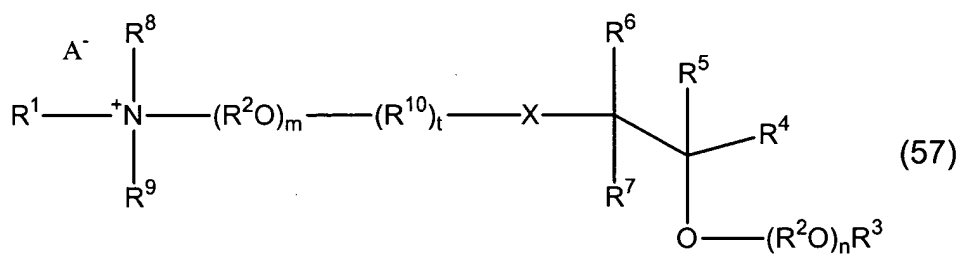
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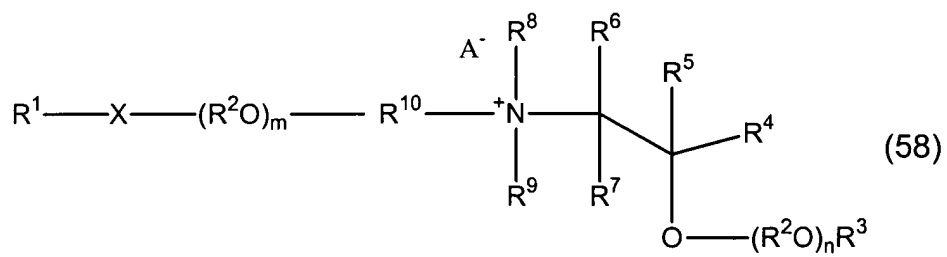
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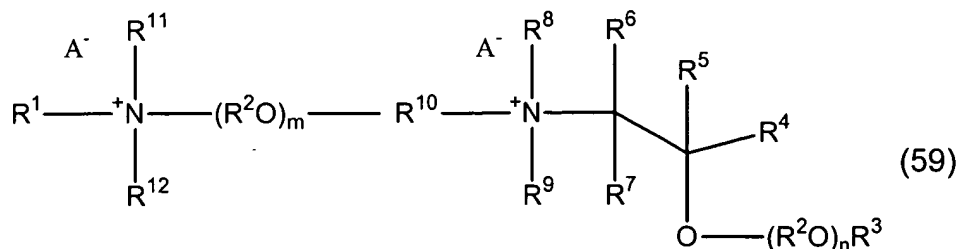
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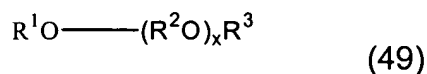
or



wherein R^1 , R^9 , and R^{12} are independently hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(\text{R}^2\text{O})_p\text{R}^{13}$, R^2 in each of the m (R^2O) , n (R^2O) , p (R^2O) and q (R^2O) groups is independently C_2 - C_4 alkylene, R^3 , R^8 , R^{11} , R^{13} and R^{15} are independently hydrogen, or a hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is $-(\text{CH}_2)_y\text{OR}^{13}$ or $-(\text{CH}_2)_y\text{O}(\text{R}^2\text{O})_q\text{R}^3$, R^5 , R^6 and R^7 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or R^4 , R^{10} is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R^{14} is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(\text{CH}_2)_z\text{O}(\text{R}^2\text{O})_p\text{R}^3$, m , n , p and q are independently an average number from 1 to about 50, X is independently $-\text{O}-$, $-\text{N}(\text{R}^{14})-$, $-\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{O}-$, $-\text{OC}(\text{O})-$, $-\text{N}(\text{R}^{15})\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{N}(\text{R}^{15})-$, $-\text{S}-$, $-\text{SO}-$, or $-\text{SO}_2-$, t is 0 or 1, A^- is an agriculturally acceptable anion, and y and z are independently an integer from 0 to about 30.

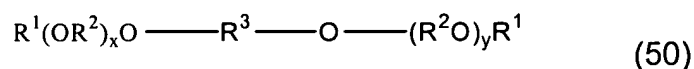
64. (Withdrawn) The composition of claim 63 wherein said at least one nonionic surfactant comprises:

(a) an alkoxyated alcohol having the formula:



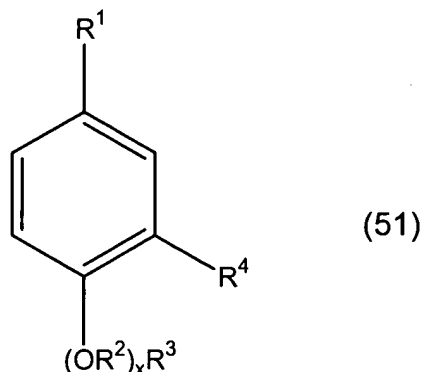
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, and x is an average number from 1 to about 60; or

(b) a dialkoxylated alcohol having the formula:



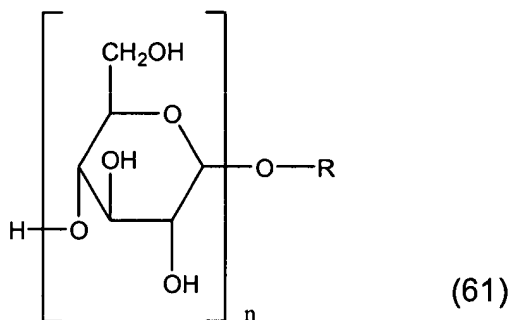
wherein R^1 is independently hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^2 in each of the x (R^2O) and the y (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, and x and y are independently an average number from 1 to about 60; or

(c) an alkoxyated dialkylphenol having the formula:



wherein R^1 and R^4 are independently hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms and at least one of R^1 and R^4 is an alkyl group, R^2 in each of the x (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, and x is an average number from 1 to about 60; or

(d) a glycoside having the formula:



wherein n is the degree of polymerization, or number of glycosyl groups, and R is a branched or straight chain alkyl group preferably having from 4 to 18 carbon atoms, or a mixture of alkyl groups having an average value within the given range.

65. (Currently Amended) A liquid herbicidal concentrate emulsion composition having a continuous aqueous phase and a discontinuous oil phase, the composition comprising:

a pesticidal component consisting of a water-soluble herbicide dissolved in said aqueous phase, the water-soluble herbicide being present in a concentration that is biologically effective when the composition is diluted in a suitable volume of water and applied to the foliage of a susceptible plant;

an oil phase comprising a substantially water-immiscible organic solvent; and

a surfactant system comprising a surfactant component and a stabilizer, said surfactant component comprising at least one cationic surfactant and present in a concentration sufficient to provide acceptable temperature stability of the emulsion such that the emulsion has a cloud point of at least about 50°C and a crystallization point not greater than about 0°C, said stabilizer comprising one or more amine compounds or quaternary ammonium salts thereof, each of which comprises an alkyl or aryl substituent having from about 4 to about 16 carbon atoms and not more than ten ethylene oxide linkages within the compound, wherein said stabilizer is present in an amount sufficient to enhance the compatibility of said surfactant component with the herbicide and the weight ratio of said at least one cationic surfactant to said stabilizer is between about 1.5:1 and about 6:1.

66. (Withdrawn) The composition of claim 65 wherein the cloud point is at least about 60°C.

67. (Original) The composition of claim 65 wherein the herbicide is glyphosate or a salt or ester thereof.

68. (Original) The composition of claim 67 wherein the glyphosate is predominantly in the form of the potassium, monoammonium, diammonium, sodium, monoethanolamine, n-propylamine, ethylamine, ethylenediamine, hexamethylenediamine or trimethylsulfonium salt thereof.

69. (Original) The composition of claim 68 wherein the glyphosate is predominantly in the form of the potassium salt thereof.

70. (Withdrawn) The composition of claim 65 wherein the composition is stable after storage at 50°C for at least 14 days.

71. (Withdrawn) The composition of claim 65 wherein the composition is stable after storage at 50°C for about 28 days.

72. (Withdrawn) The composition of claim 65 wherein the composition has a viscosity of less than about 1000 centipoise at 0°C at 45/s shear rate.

73. (Withdrawn) The composition of claim 65 wherein said surfactant component is selected such that the composition exhibits no crystallization of said herbicide when stored at a temperature of about 0°C for a period of about 7 days.

74. (Previously Amended) The composition of claim 67 wherein said glyphosate is in solution in said aqueous phase in an amount of about 310 to about 600 grams of acid equivalent per liter of the composition.

75. (Original) The composition of claim 74 wherein said glyphosate is in solution in said aqueous phase in an amount of about 360 to about 600 grams of acid equivalent per liter of the composition.

76. (Previously Amended) The composition of claim 69 wherein said glyphosate, predominantly in the form of the potassium salt thereof, is in solution in said aqueous

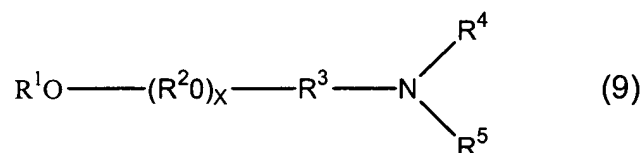
phase in an amount of about 400 to about 600 grams of acid equivalent per liter of the composition.

77. (Withdrawn) The composition of claim 65 wherein the total amount of surfactant is from about 20 to about 300 grams per liter of the composition.

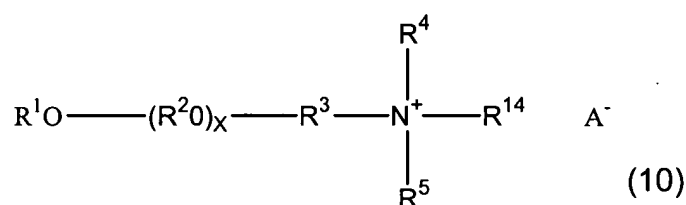
78. (Withdrawn) The composition of claim 65 wherein the composition is substantially homogeneous upon storage at 50°C for one week.

79. (Withdrawn) The composition of claim 65 wherein said at least one cationic surfactant comprises:

(a) an aminated alkoxyated alcohol having the formula:



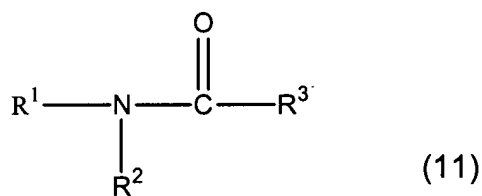
or



wherein R^1 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, $-(R^6)_n-(R^2O)_yR^7$, $-C(=NR^{11})NR^{12}R^{13}$, $-C(=O)NR^{12}R^{13}$, $-C(=S)NR^{12}R^{13}$ or together with R^5 and the nitrogen atom to which they are attached, form a cyclic or heterocyclic ring, R^5 is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, $-(R^6)_n-(R^2O)_yR^7$, $-C(=NR^{11})NR^{12}R^{13}$, $-C(=O)NR^{12}R^{13}$,

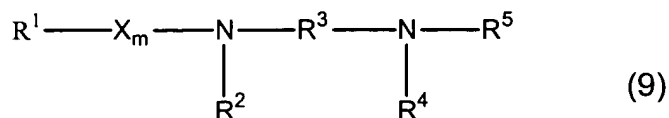
-C(=S)NR¹²R¹³ or together with R⁴ and the nitrogen atom to which they are attached, form a cyclic or heterocyclic ring, R⁷ is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, R¹¹, R¹² and R¹³ are hydrogen, hydrocarbyl or substituted hydrocarbyl, R¹⁴ is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, -(R⁶)_n-(R²O)_yR⁷, -C(=NR¹¹)NR¹²R¹³, -C(=O)NR¹²R¹³, or -C(=S)NR¹²R¹³, R² in each of the x (R²O) and y (R²O) groups is independently C₂-C₄ alkylene, R³ and R⁶ are each independently hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, n is 0 or 1, x and y are independently an average number from 1 to about 60, and A- is an agriculturally acceptable anion; or

(b) a hydroxylated amide having the formula:



wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms, R² is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, and R³ is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl; or

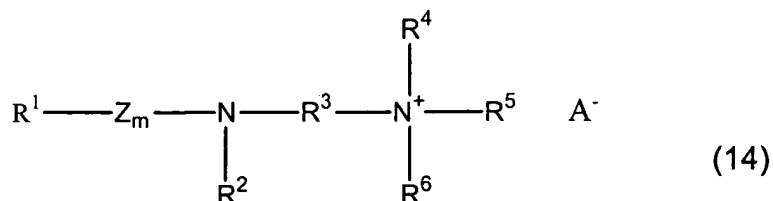
(c) a diamine having the formula:



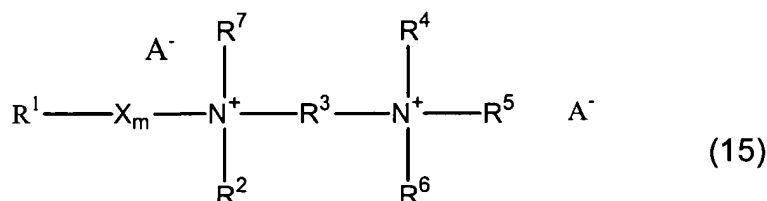
wherein R¹, R² and R⁵ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms or -R⁸(OR⁹)_nOR¹⁰, R³ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, R⁸ and R⁹ are individually hydrocarbylene or substituted hydrocarbylene having from 2 to about 4 carbon atoms, R⁴ and R¹⁰ are independently hydrogen or hydrocarbyl or

substituted hydrocarbyl having from 1 to about 30 carbon atoms, m is 0 or 1, n is an average number from 0 to about 40, and X is -C(O)- or -SO₂-; or

(d) a mono- or di-ammonium salt having the formula:

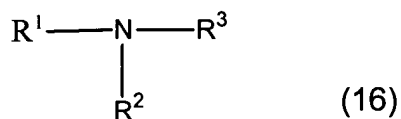


or



wherein R¹, R², R⁴, R⁵ and R⁷ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms or -R⁸(OR⁹)_nOR¹⁰, R⁶ is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R³ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R⁸ and R⁹ are individually hydrocarbylene or substituted hydrocarbylene having from 2 to about 4 carbon atoms, R¹⁰ is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m is 0 or 1, n is an average number from 0 to about 40, X is -C(O)- or -SO₂-, Z is -C(O)-, and A⁻ is an agriculturally acceptable anion; or

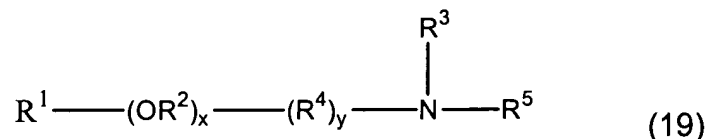
(e) a poly(hydroxyalkyl)amine having the formula:



wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms or -R⁴OR⁵, R² is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R³ is hydroxyalkyl, polyhydroxyalkyl, or

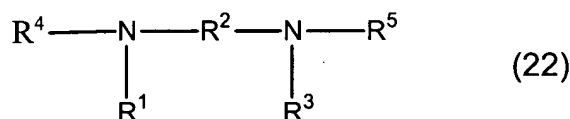
poly(hydroxyalkyl)alkyl, R^4 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and R^5 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; or

(f) an alkoxyated poly(hydroxyalkyl)amine having the formula:



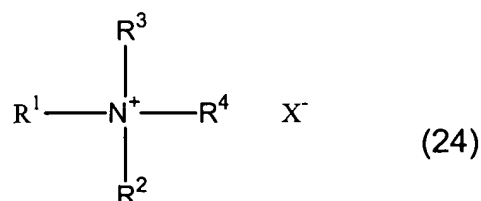
wherein R^1 and R^3 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) groups is independently C_2-C_4 alkylene, R^4 is hydrocarbylene or substituted hydrocarbylene having from 1 to about 30 carbon atoms, R^5 is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl x is an average number from 0 to about 30, and y is 0 or 1; or

(g) a di-poly(hydroxyalkyl)amine having the formula:



wherein R^1 and R^3 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 22 carbon atoms, R^2 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and R^4 and R^5 are independently hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl; or

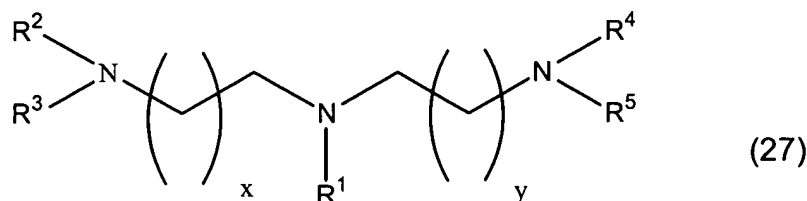
(h) a quaternary poly(hydroxyalkyl)amine salt having the formula:



wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms or $-X_m-(R^6O)_yR^5$, R^2 and R^3 are independently hydrogen or hydrocarbyl or

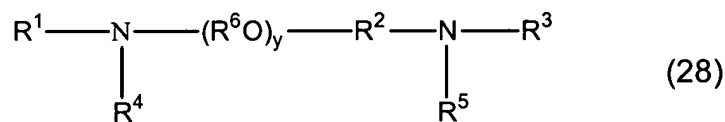
substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl, X^- is an agriculturally acceptable anion, R^6 in each of the $y(R^6O)$ groups is independently C_2-C_4 alkylene, R^5 is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, X is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, m is 0 or 1, and y is an average number from 0 to about 30; or

(i) a triamine having the formula:



wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 , R^3 , R^4 and R^5 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^8)_s(R^7O)_nR^6$, R^6 is hydrogen or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^7 in each of the $n(R^7O)$ groups is independently C_2-C_4 alkylene, R^8 is hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, n is an average number from 1 to about 10, s is 0 or 1, and x and y are independently an integer from 1 to about 4; or

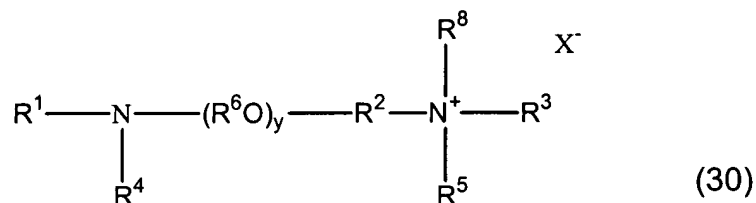
(j) a diamine having the formula:



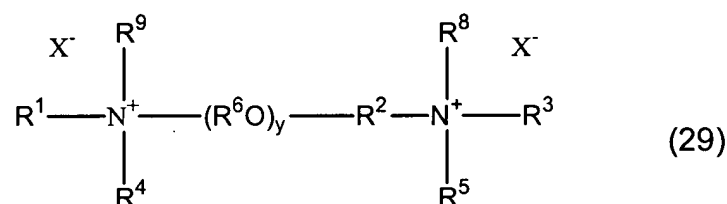
wherein R^1 , R^3 , R^4 and R^5 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^6O)_xR^7$, R^2 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, $-C(=NR^{11})NR^{12}R^{13}$ -, $-C(=O)NR^{12}R^{13}$ -, $-C(=S)NR^{12}R^{13}$ -, $-C(=NR^{12})$ -, $-C(S)$ -, or $-C(O)$ -, R^6 in each of the $x(R^6O)$ and $y(R^6O)$ groups is independently C_2-C_4 alkylene, R^7 is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, R^{11} , R^{12} and R^{13} are hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30

carbon atoms, x is an average number from 1 to about 50, and y is an average number from 0 to about 60; or

(k) a mono- or di-quaternary ammonium salt having the formula:

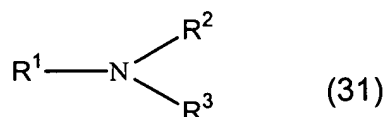


or



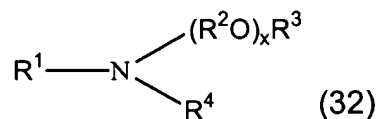
wherein R¹, R³, R⁴, R⁵, R⁸ and R⁹ are independently hydrogen, polyhydroxyalkyl, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(R⁶O)_xR⁷, R² is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R⁶ in each of the x (R⁶O) and y (R⁶O) groups is independently C₂-C₄ alkylene, R⁷ is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, x is an average number from 1 to about 30, y is an average number from about 3 to about 60, and X⁻ is an agriculturally acceptable anion; or

(l) a secondary or tertiary amine having the formula:



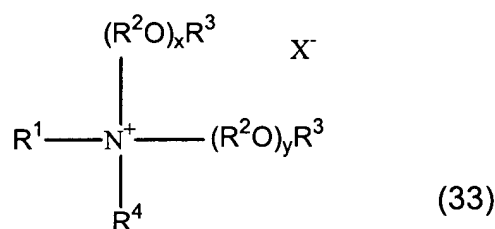
wherein R¹ and R² are hydrocarbyl having from 1 to about 30 carbon atoms, and R³ is hydrogen or hydrocarbyl having from 1 to about 30 carbon atoms; or

(m) a monoalkylated amine having the formula:



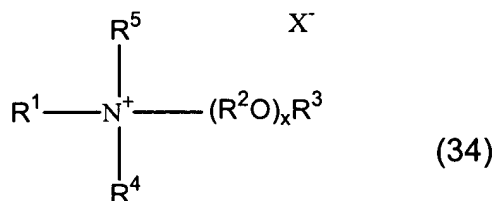
wherein R^1 and R^4 are independently hydrocarbyl or substituted hydrocarbyl groups having from 1 to about 30 carbon atoms or $-\text{R}^5\text{SR}^6$, R^2 in each of the x (R^2O) groups is independently $\text{C}_2\text{-C}_4$ alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^5 is a linear or branched alkyl group having from about 6 to about 30 carbon atoms, R^6 is a hydrocarbyl or substituted hydrocarbyl group having from 4 to about 15 carbon atoms and x is an average number from 1 to about 60; or

(n) a dialkoxylated quaternary ammonium salt having the formula:



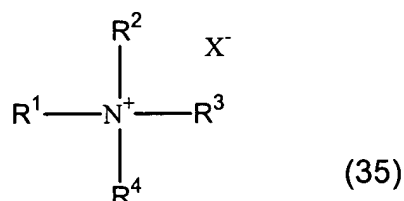
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) and y (R^2O) groups is independently $\text{C}_2\text{-C}_4$ alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^4 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, x and y are independently an average number from 1 to about 40, and X^- is an agriculturally acceptable anion; or

(o) a monoalkoxylated quaternary ammonium salt having the formula:



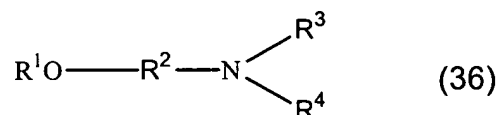
wherein R^1 and R^5 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, x is an average number from 1 to about 60, and X^- is an agriculturally acceptable anion; or

(p) a quaternary ammonium salt having the formula:



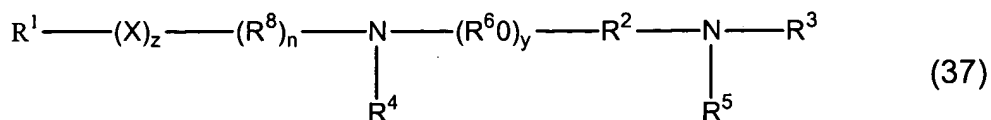
wherein R^1 , R^3 and R^4 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, and X^- is an agriculturally acceptable anion; or

(q) an etheramine having the formula:



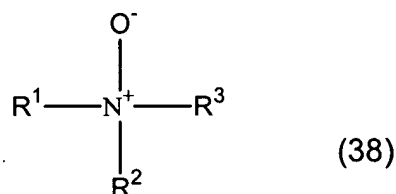
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R^3 and R^4 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^5O)_xR^6$, R^5 in each of the $x(R^5O)$ groups is independently C_2 - C_4 alkylene, R^6 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, and x is an average number from 1 to about 50; or

(r) a diamine having the formula:



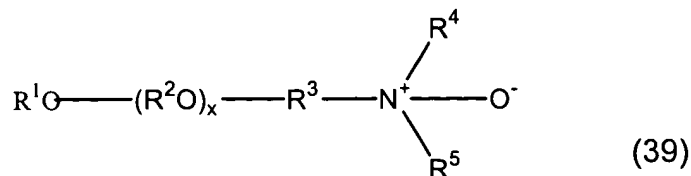
wherein R^1 , R^3 , R^4 and R^5 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(\text{R}^6\text{O})_x\text{R}^7$, R^2 and R^8 are independently hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R^6 in each of the x (R^6O) and y (R^6O) groups is independently $\text{C}_2\text{-C}_4$ alkylene, R^7 is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, x is an average number from 1 to about 30, X is $-\text{O}-$, $-\text{N}(\text{R}^6)-$, $-\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{O}-$, $-\text{OC}(\text{O})-$, $-\text{N}(\text{R}^9)\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{N}(\text{R}^9)-$, $-\text{S}-$, $-\text{SO}-$, or $-\text{SO}_2-$, y is 0 or an average number from 1 to about 30, n and z are independently 0 or 1, and R^9 is hydrogen or hydrocarbyl or substituted hydrocarbyl; or

(s) an amine oxide having the formula:



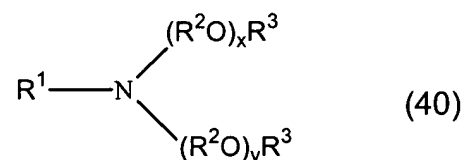
wherein R^1 , R^2 and R^3 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, $-(\text{R}^4\text{O})_x\text{R}^5$, or $-\text{R}^6(\text{OR}^4)_x\text{OR}^5$, R^4 in each of the x (R^4O) groups is independently $\text{C}_2\text{-C}_4$ alkylene, R^5 is hydrogen, or a hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^6 is a hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, x is an average number from 1 to about 50, and the total number of carbon atoms in R^1 , R^2 and R^3 is at least 8; or

(t) an alkoxyated amine oxide having the formula:



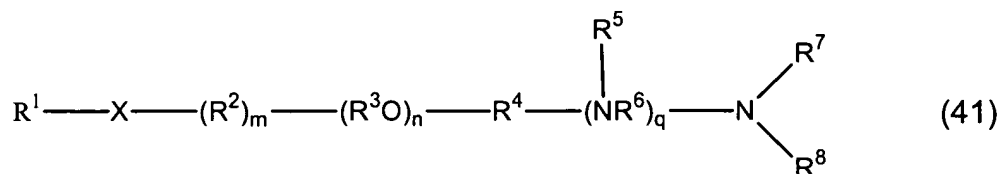
wherein R^1 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^3 is a hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms, R^4 and R^5 are each independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^6)_n-(R^2O)_yR^7$, R^2 in each of the x (R^2O) and y (R^2O) groups is independently C_2 - C_4 alkylene, R^6 is hydrocarbylene or substituted hydrocarbylene containing from 1 to about 6 carbon atoms, R^7 is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, n is 0 or 1, and x and y are independently an average number from 1 to about 60; or

(u) a dialkoxylated amine having the formula:



wherein R^1 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, $-R^4SR^5$, or $-(R^2O)_zR^3$, R^2 in each of the x (R^2O), y (R^2O) and z (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 22 carbon atoms, R^4 is a linear or branched alkyl group having from about 6 to about 30 carbon atoms, R^5 is a linear or branched alkyl group having from about 4 to about 15 carbon atoms, and x , y and z are independently an average number from 1 to about 40, provided, however, that when R^1 is alkyl, either the sum of x and y is greater than 20 or R^3 is other than hydrogen; or

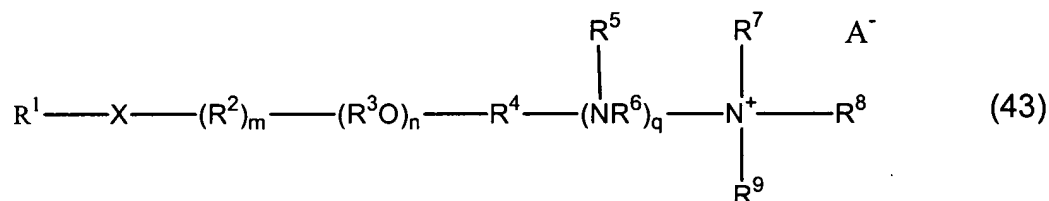
(v) an aminated alkoxylated alcohol having the formula:



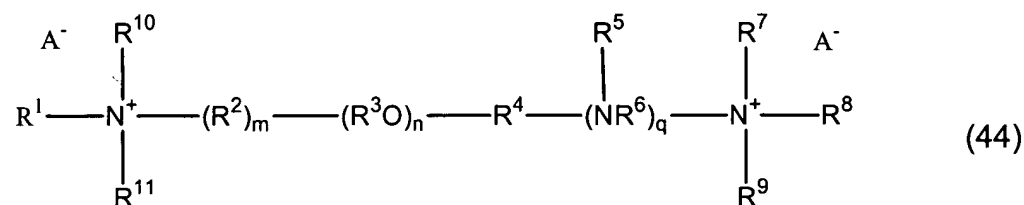
wherein R^1 , R^7 , R^8 , and R^9 are each independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^{11})_s(R^3O)_vR^{10}$, X is $-O-$,

-OC(O)-, -C(O)O-, -N(R¹²)C(O)-, -C(O)N(R¹²)-, -S-, -SO-, -SO₂- or -N(R⁹)-, R³ in each of the n (R³O) groups and the v (R³O) groups is independently C₂-C₄ alkylene, R¹⁰ is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, n is an average number from 1 to about 60, v is an average number from 1 to about 50, R² and R¹¹ are each independently hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, R⁴ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms, R¹² is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m and s are each independently 0 or 1, R⁶ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, -C(=NR¹²)-, -C(S)-, or -C(O)-, q is an integer from 0 to 5, and R⁵ is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; or

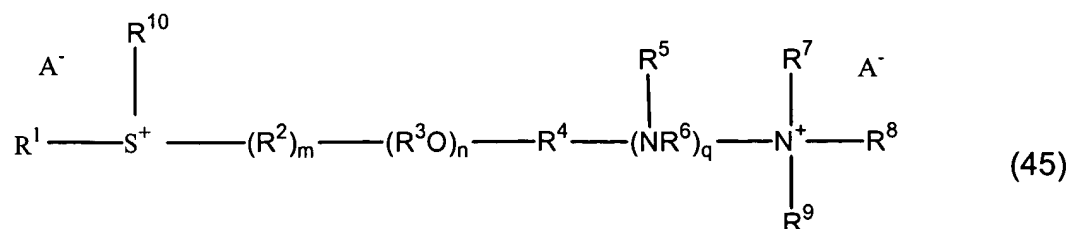
(w) a quaternary ammonium, sulfonium or sulfoxonium salt having the formula:



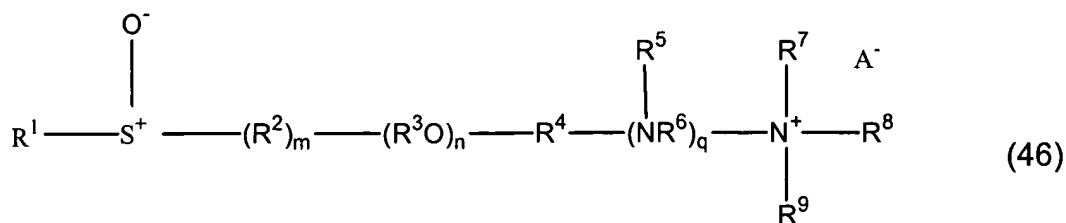
or



or

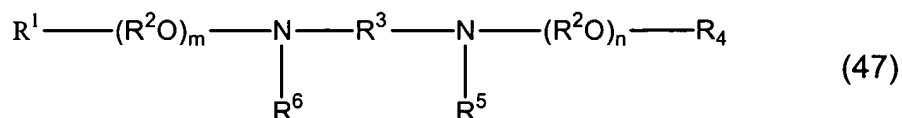


or

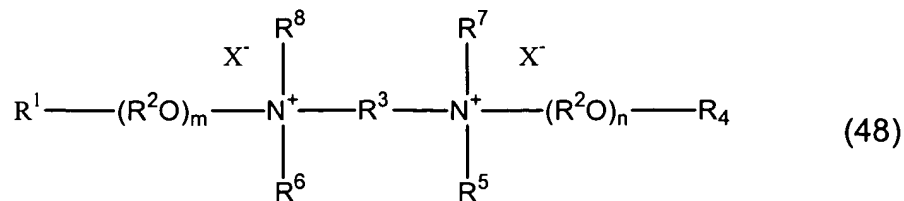


wherein R^1 , R^7 , R^8 , R^9 , R^{10} and R^{11} are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(\text{R}^{13})_s(\text{R}^3\text{O})_v\text{R}^{12}$, X is $-\text{O}-$, $-\text{OC}(\text{O})-$, $-\text{N}(\text{R}^{14})\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{N}(\text{R}^{14})-$, $-\text{C}(\text{O})\text{O}-$, or $-\text{S}-$, R^3 in each of the n (R^3O) groups and v (R^3O) groups is independently C_2 - C_4 alkylene, R^{12} is hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms, n is an average number from 1 to about 60, v is an average number from 1 to about 50, R^2 and R^{13} are each independently hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, m and s are each independently 0 or 1, R^4 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms, R^6 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, $-\text{C}(=\text{NR}^{12})-$, $-\text{C}(\text{S})-$, or $-\text{C}(\text{O})-$, R^{14} is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, q is an integer from 0 to 5, R^5 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, and each A^- is an agriculturally acceptable anion; or

(x) a diamine or diammonium salt having the formula:



or



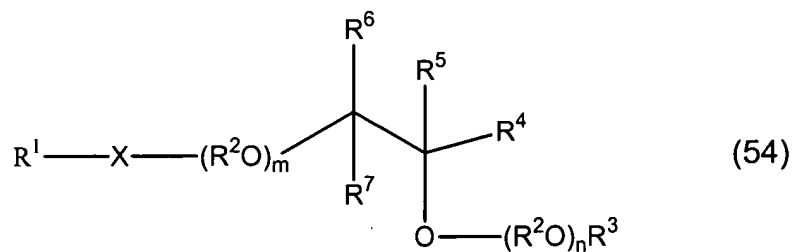
(y) a compound of the formula:



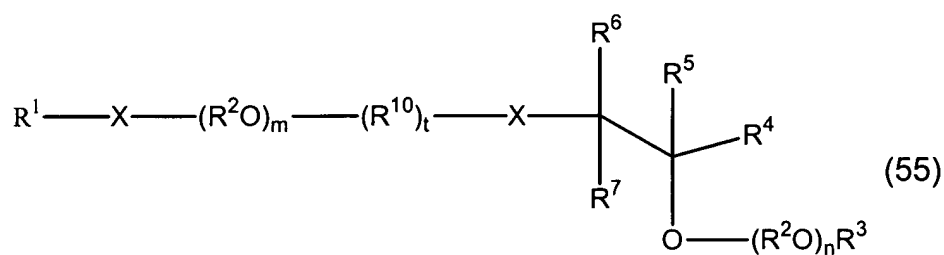
(53)

(56)

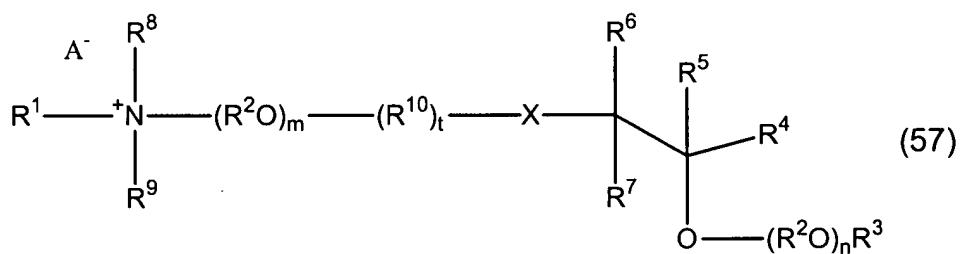
42



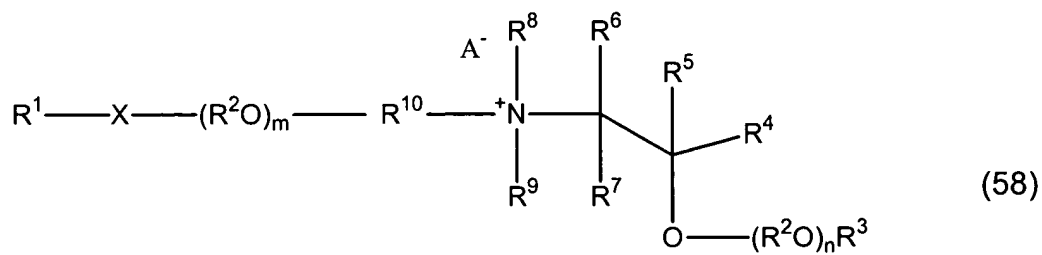
or



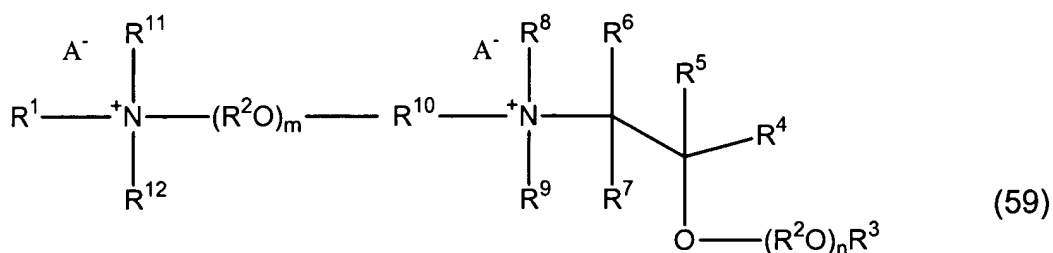
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or



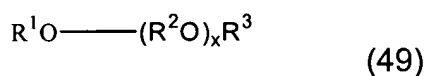
or



wherein R^1 , R^9 , and R^{12} are independently hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^2O)_p R^{13}$, R^2 in each of the m (R^2O) , n (R^2O) , p (R^2O) and q (R^2O) groups is independently C_2 - C_4 alkylene, R^3 , R^8 , R^{11} , R^{13} and R^{15} are independently hydrogen, or a hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^4 is $-(CH_2)_y OR^{13}$ or $-(CH_2)_y O(R^2O)_q R^3$, R^5 , R^6 and R^7 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or R^4 , R^{10} is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, R^{14} is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(CH_2)_z O(R^2O)_p R^3$, m , n , p and q are independently an average number from 1 to about 50, X is independently $-O-$, $-N(R^{14})-$, $-C(O)-$, $-C(O)O-$, $-OC(O)-$, $-N(R^{15})C(O)-$, $-C(O)N(R^{15})-$, $-S-$, $-SO-$, or $-SO_2-$, t is 0 or 1, A^- is an agriculturally acceptable anion, and y and z are independently an integer from 0 to about 30.

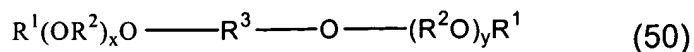
80. (Withdrawn) The composition of claim 65 wherein said surfactant component further comprises at least one nonionic surfactant comprising:

(a) an alkoxyated alcohol having the formula:



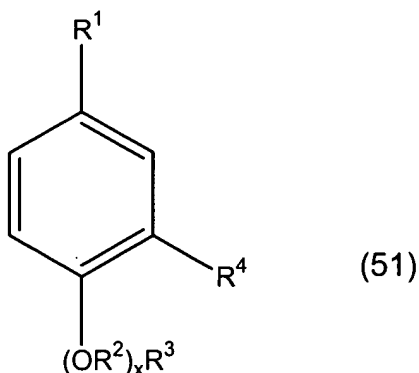
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, and x is an average number from 1 to about 60; or

(b) a dialkoxylated alcohol having the formula:



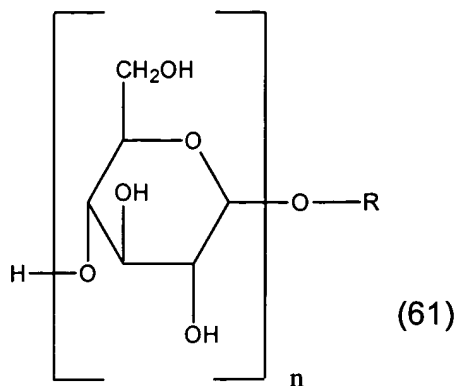
wherein R^1 is independently hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^2 in each of the x (R^2O) and the y (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, and x and y are independently an average number from 1 to about 60; or

(c) an alkoxyated dialkylphenol having the formula:



wherein R^1 and R^4 are independently hydrogen, or a linear or branched alkyl group having from 1 to about 30 carbon atoms and at least one of R^1 and R^4 is an alkyl group, R^2 in each of the x (R^2O) groups is independently C_2 - C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, and x is an average number from 1 to about 60; or

(d) a glycoside having the formula:



wherein n is the degree of polymerization, or number of glucose groups, and R is a branched or straight chain alkyl group preferably having from 4 to 18 carbon atoms, or a mixture of alkyl groups having an average value within the given range.

81-125 (canceled)

126. (Previously Presented) The composition of claim 1 wherein said stabilizer comprises octylamine.

127. (Previously Presented) The composition of claim 31 wherein said stabilizer comprises octylamine.

128. (Previously Presented) The composition of claim 46 wherein said stabilizer comprises octylamine.

129. (Previously Presented) The composition of claim 65 wherein said stabilizer comprises octylamine.

130. (Canceled)

131. (Canceled)